### **LMA District Cover Sheet**

#### **Spring 2013 Levee Inspection Results**

### **Reclamation District No. 2089 Stark**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				
	** Non-receipt of Su	ummer or Winter Insp	ection Reports may effec	ct overall annual rating
FALL INSPECTIONS: The overall maintena	d using the same crite ince rating shown abo	ria in the spring and in	n the fall.	ficiencies identified
omments				
onmens				

#### **Unit Cover Sheet**

#### **Spring 2013 Levee Inspection Results**

#### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles
Unit No. 01 Old River	Right	1.53

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/16/2013 - 05/16/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Kent Gikas RD2089			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

₩ Le	evee Mile	Cata	lke	Loca	Rat	Asking/C	GPS Latitu	ıde/Longitude	Issue No.
Sta	art End	Category	Item	Location	Rating ** +	Action/Comment	Start	End	Photo
1			Operations & Maintenance Manuals	LS	A Ma				,
			Emergency	LS	Α		DWICID. DWIC_		
-			Supplies & Equipment	LO	Ma		DWR ID: DWR	o RD2089_01_s _ 2013	•
3			Flood	LS	Α		DWICID: DWIC		
ŭ			Preparedness & Training	LO	Ma		c	_	•
4 0						<b></b>		RD2089_01_s _ 2013	
4 0.	.00 0.39		Encroachments	LS	M En	DT : Ditch Inspector Comments: 05/24/2011 Photo added of Ag ditch.	37.811681 ° -121.384930 °		
								RD2089_01_s _ 2012	
5 0.	.03 0.27		Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Excessive vegetation on landside slope.	37.811487 ° -121.385479 °	37.810322 ° -121.389407 °	
						Siope.	DWR ID: DWR_	RD2089_01_s _ 2012	<u>.</u> 5
6 0	.04 0.04		Trim / Thin Trees	LS	С	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010 inspection photo attached.	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	
						<u> </u>	DWR ID: DWR_	RD2089_01_s _ 2012	1_3
7 0	.04 0.04		Encroachments	LS	A/W En	PI : Pipe Inspector Comments: Drainage pump		-121.385569 °	Y
8 0	04 0.04			1.0	N 4	CT - Ctain var	37.811474 °	RD2089_01_s _ 2012	
° 0,	.04 0.04		Encroachments	LS	Ma	ST: Stairway Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.		37.811474 ° -121.385573 °	
							DWR ID: DWR_	RD2089_01_s _ 2012	<u>.</u> 1
9 0.	.10 0.10		Trim / Thin Trees	LS	C Ma	T1: Trim trees to at least five feet above ground level. Inspector Comments: Two scrub oaks obstruct access to levee slope. 05/24/2011 Issue has not changed since Fall 2010 inspection, photo attached.	37.811272 ° -121.386703 °	37.811272 ° -121.386703 °	
						20 To mopositori, prioto attaorioa.	DWR ID: DWR_	RD2089_01_s _ 2012	2_935
10 0	.18 0.18		Trim / Thin Trees	LS	C Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Trees are blocking visibility and access.	37.810802 ° -121.387969 °	37.810802 ° -121.387969 °	
							DWR ID: DWR_	RD2089_01_s _ 2012	
11 0	.18 0.18		Animal Control	LS	M Ma	$\mbox{A3}$ : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.		-121.387892 °	Y
							אואם :חו אואם_	RD2089_01_f _ 2012	_၁ჟ

\* Location LS : Land Side WS : Water Side CR : Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

							ation District No. 2003		-			
				Wat	terwa	ay		Bank	Unit Miles	Start/End	Inspec	
				Unit No. 0	)1 O	ld F	River	Right	1.53	05/16/2013 05/16/2013		
LMR	Levee	Mile			Loca	Rat				GPS Latitud	e/Longitude	Issue No.
No.	Start	End	Category	Item	Location	Rating ** +	Action/Comment			Start	End	Photo
12	0.23	0.23		Trim / Thin Trees	LS	C Ma	T1: Trim trees to at least five feet above Inspector Comments: 05/24/2011 Issue since Fall 2010. 11/10/2011 Trees have but needs to be limbed up further to provand visibility.	is unchan been limb	ged ed up,	37.810532 °	37.810532 ° -121.388823 ° -	
13	0.24	0.24		Trim / Thin	LS	N	T5 : Tree stumps.			37.810499 °	37.810499 °	6
				Trees		Ма	Inspector Comments: Stump greater tha crown.	n 2" on la	ndside	-121.388884 ° -		Υ
											02089_01_s _ 2012_	
14	0.24	0.24		Vegetation	LS	M Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: Bamboo remains a despite last years burning. 05/24/2011 B remains, updated photo attached. 11/10/been trimmed back from the crown but s obstruction to the slope and obstructs vis be removed. This plant was improperly in bamboo in previous inspections.	as an obs amboo st 2011 Aru till remair sibility, ne	truction ill ndo has ns as an eds to	37.810488 ° - 121.389018 ° -		Y
											02089_01_s _ 2012_	
15	0.26	0.26		Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: Stump in levee cro	own.		37.810376 ° -121.389290 ° DWR ID: DWR_RI	37.810376 ° -121.389290 ° -2089_01_s _ 2012_	8 Y _8
16	0.26	0.26		Trim / Thin Trees	LS	C Ma	T3 : Trim and thin trees to allow visibility room to flood fight. Inspector Comments: Tree needs to be to allow visibility and access during flood	rimmed u		37.810346 ° -121.389319 °	37.810346 ° -121.389319 °	11
										DWR ID: DWR_RI	02089_01_s _ 2012_	_11
17	0.27	0.39		Vegetation	LS	U Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: Access and visibil blocked. 11/10/2011 issue has not change.	ity comple		-121.389510°-	37.809740 ° -121.391645 °	Y
18	0.29	0.34		Trim / Thin	LS		T4 : Trim trees over roadway to at least	12 feet ah	iove	37.810219 °	37.809978 °	
	0.20	0.01		Trees	20	Ma	ground level. Inspector Comments: Trees mixed with trees need to be trimmed to 12' above roelsewhere to permit access for flood figh	hick vege adway ar	etation, and to 5'	-121.389805 ° -	-121.390704 °	
										DWR ID: DWR_RI	02089_01_s _ 2012_	_17
19	0.34	0.34		Vegetation	LS	M Ma	V2: Remove the wild growth other than from the levee slopes. Inspector Comments: Bamboo complete and visibility.11/10/2011 Arundo has bee from the roadway, but still completely blovisibilit to the landside slope. This plant videntified as bamboo in previous inspect	ly blocks in trimme ocks acce was impro	access d back ss and	37.809978 ° -121.390704 °	37.809978 ° -121.390704 °	19 Y
										DWR ID: DWR_RI	02089_01_s _ 2012_	_19
20	0.38	0.38		Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above	ground le		37.809865 ° -121.391303 ° DWR ID: DWR_RI	37.809865 ° -121.391303 ° -22089_01_s _ 2012_	Υ
* Lo	cation		**	Rating			+ Issue Type					
WS	S : Land : S : Water R : Crowr	Side		A : Acceptable M : Minimally Acceptable U : Unacceptable		C : 0	Not Inspected/Rated Ma : Maintenance Corrected Ob : Design & Sy Acceptable but Monitor & Maintain En : Enforcement	stem Obsole	escence			

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#### Flood Control Project Maintenance Levee Inspections

### Levee Inspection Report By Mile - Spring 2013

## **Reclamation District No. 2089 Stark**

				Wa	terwa	y		Bank	Unit Miles	Inspection Start/End	Inspec	tor
				Unit No. (	01 O	ld F	River	Right	1.53	05/16/2013 05/16/2013	Maksi Khashc	
LMR I	Levee	Mile	Category	Item	Location	Rating ** +	Action/Comment			GPS Latitude	/Longitude	Issue No.
<u>ج</u> 21	Start	End		Trim / Thin			T2 . This trace to allow visibility of the gr	cound one	l room to	Start 37.809788 °	End 37.809788 °	Photo 26
	0.39	0.39		Trim / Thin Trees	LS	C Ma	flood fight.	Thin trees to allow visibility of the ground and room l fight.				_26
22	0.42	0.48		Trim / Thin Trees	LS	C Ma	T3: Trim and thin trees to allow visibility room to flood fight. Inspector Comments: Trees need to be visibility and 12 feet over roadway. Too taccess and visibility.	trimmed t	to allow	37.809643 ° -1-21.391869 ° -1	21.392907°	
23	0.42	0.48		Vegetation	LS	U Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: Vegetation is too taccess and visibility.	_		37.809593 ° -121.391963 ° -1		28 Y
24	0.45	0.45	Supplementa	l DWR Erosion Survey	WS		Inspector Comments: 08/07/2012: The sixisted by boat survey. No significant cha 08/23/2011: The site shows loose mater pipe crossing. The operation of the pipe caused certain impact on the levee. [2011] ID:RD2089U01RM29.8]	ange obse ial around might ha	erved d the		37.809394°	
							,			DWR ID: DWR_RD2	089_01_s _ 2013_	_50
25	0.47	0.47		Encroachments	WS	<b>4/W</b> En	PI : Pipe			37.809494 ° -121.392787 ° -1 DWR ID: DWR_RD2		10 Y _10
26	0.47	0.74		Encroachments	WS	M En	DT : Ditch Inspector Comments: Ditch at toe of lever pipe in the ditch.	ee with a	18 inch	-121.393141°-1		Y
								- · · ·		DWR ID: DWR_RD2		
27	0.50	0.50		Trim / Thin Trees	WS	C Ma	T3: Trim and thin trees to allow visibility room to flood fight. Inspector Comments: Trees need to be dense to allow access in a flood fight sitvegetation has been sprayed, but needs allow visibility and access.	thinned, t uation. W	oo oody	37.809666 ° -121.393210 ° -1	37.809666 ° 21.393210 °	29
_										DWR ID: DWR_RD2	089_01_s _ 2012_	_29
28	0.50	0.50		Vegetation	LS		V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: Dead growth is to access during flood fight situation and cobstructs visibility of the landside toe.	o thick to	allow	37.809665 ° -121.393219 ° -1	37.809665 ° 21.393219 °	
										DWR ID: DWR_RD2	089_01_s _ 2012_	_30
29	0.56	0.56		Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base compact. Inspector Comments: 11/10/2011 Minor cause ponding.			37.810087 ° -121.394200 ° -1	21.394200°	Y
						_				DWR ID: DWR_RD2		
30	0.60	0.60		Trim / Thin Trees	LS	C Ma	T1: Trim trees to at least five feet above Inspector Comments: 05/24/2011 Issue unchanged since Fall 2010, photo attach	remains		37.810230 ° -121.394967 ° -1	37.810230 ° 21.394967 °	950
										DWR ID: DWR_RD2	089_01_s _ 2012_	_950
L:	S: Land S S: Water R: Crown	Side	**	Rating  A : Acceptable  M : Minimally Acceptabl  U : Unacceptable		C : C	+ Issue Type  Not Inspected/Rated	ystem Obsol				

#### **Flood Control Project Maintenance Levee Inspections**

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

				Wa	iterwa	ıy		Bank	Unit Miles	Inspection Start/End	Inspec	tor
				Unit No. (	01 O	ld F	River	Right	1.53	05/16/2013 05/16/2013	Maksi Khashc	
LMR	Levee	Mile			Loca	<sub>∗</sub> Ra				GPS Latitude/L	ongitude	Issue No.
No.	Start	End	Category	Item	ocation	Rating	Action/Comment			Start	End	Photo
31	0.64	1.53		Vegetation	WS	M Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: 11/10/2011 Wate too thick to allow access and visibility.			37.810048 ° 3 -121.395762 ° -12 DWR ID: DWR_RD208		18 Y _18
32	0.64	0.64		Trim / Thin Trees	LS	C Ma	T1 : Trim trees to at least five feet above	e ground I		37.810130 ° 3 -121.395732 ° -12 DWR ID: DWR_RD208		
33	0.66	0.66	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The sixided by boat survey. No significant ch 08/23/2011: The 5-foot vertical scarp sh change from the last year inspection. No activities observed. Dense white willow 09/07/2010: It was difficult to view the ethick Willow thickets and other vegetation. At the time of the inspection, there repair on site. As noted during the last stoot vertical scarp along the lower slope subjected to high flow velocities. 08/05/2010: Recommended for repair, p. "Erosion of this site may be subjective the erosion."  109/28/2009: No major change observed scarp is immediately downstream of what tapered; site is recommended as local in per CLRO CES Evaluation 2008 Report same as RM29.6,LM0.60; previously rat 11/05/2008: No change observed; roder slope; wide levee crown. [2012 Site ID:RD2089U01RM29.61]	ange obso	erved gnificant sion ite. e to the vater signs of ere is a 5-be ertical has ce issue, the	37.809780° 3 -121.396230° -12	7.809780 ° 1.396230 °	51 Y
34	0.67	0.68		Vegetation	LS	U Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: Dead brush need too thick to allow access and obstructs slope and toe	s to be re	moved,	37.809975 ° 3 -121.396107 ° -12	7.809822 ° 1.396376 °	31 Y
35	0.67	0.67		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burro backfill and compact or grout burrows. Inspector Comments: Active burrows ev		e; need to		7.809974 ° 1.396110 °	32 Y
36	0.73	0.77		Vegetation	LS	U Ma	V2 : Remove the wild growth other than from the levee slopes. Inspector Comments: 11/10/2011 Dead prohibits visibility of the landside toe.				7.808909 ° 1.397557 °	20 Y
37	0.82	0.82		Encroachments	WS		PI : Pipe Inspector Comments: Irrigation intake p	ump and	pipe.	37.808427 ° 3 -121.397827 ° -12 DWR ID: DWR_RD208	7.808427 ° 1.397827 °	13 Y

\* Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

								00:10:2010		
LMR	Levee	Mile	Catagony	Itom	Location	Rating	Action/Comment	GPS Latitud	e/Longitude	Issue No.
No.	Start	End	Category	Item	tion +	ng	Action/Comment	Start	End	Photo
38	0.85	1.07		Vegetation	WS I	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall weeds and brush on top 20' of waterside slope obstruct visibility.	37.807938 ° -121.397898 ° -	37.806011 ° 121.399668 °	36 Y
							,	DWR ID: DWR_RD	2089_01_s _ 2012_	_36
39	0.88	0.88		Trim / Thin Trees	LS (		T3: Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: 11/10/2011 Tree needs to be trimmed up 5' to allow visibility of the landside slope and toe.	37.807502 ° -121.397781 ° -		
40	0.06	0.06		Vagatation	W/C I	N /	V2 : Damova the wild growth other than native granges	37.806397 °	37.806397 °	33
40	0.96	0.96		Vegetation	WS I		V2 : Remove the wild growth other than native grasses from the levee slopes.  Inspector Comments: 11/10/2011 Large arundo on waterside prevents visibility and access to waterside slope.	-121.397758 ° -		Y
								DWR ID: DWR_RD	2089_01_s _ 2012_	_33
41	0.97	0.97		Trim / Thin Trees		C Ma	T1 : Trim trees to at least five feet above ground level.	37.806347 ° -121.397861 ° -		
42	0.98	0.98		Vegetation		C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Vegetation prevents access and visibility of the landside toe.	37.806266 ° -121.397960 ° -		
								DWR ID: DWR_RD	2089_01_s _ 2012_	_41
43	0.98	1.07		Vegetation	WS		V2: Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Thick vegetation blocks viaibility and access to top 20' of waterside slope.	37.806264 ° -121.397961 ° -	37.805885 ° 121.399726 °	35 Y
								DWR ID: DWR_RD	2089_01_s _ 2012_	_35
44	0.98	0.98		Encroachments		C Ma	MA: Material Inspector Comments: Powerline wire must be removed from waterside slope.	37.806265 ° -121.398012 ° -	37.806265 ° 121.398012 °	65
							·	DWR ID: DWR_RD	2089_01_s _ 2012_	_65
45	1.04	1.06		Vegetation	LS I	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility.	37.806063 ° -121.398930 ° -	000000.	956
							Tiolomy.	DWR ID: DWR_RD	2089_01_s _ 2012_	956
46	1.10	1.10		Vegetation			V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access.	37.805848 ° -121.400003 ° -	37.805848 ° 121.400003 °	957
								DWR ID: DWR_RD	2089_01_s _ 2012_	957
47	1.16	1.16		Encroachments			PI : Pipe Inspector Comments: 11/10/2011 Two pieces of DI pipe need to be removed. Creates a possible obstruction to access during a floodfight.	37.805631 ° -121.401142 ° -		42
								DWR ID: DWR_RD	2089_01_s _ 2012_	42

\* Location
LS: Land Side
WS: Water Side
CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

							-			03/10/2013	Miasiic	TIUK
LMR 7	Levee	Mile	Category	Item	Location	Rating ** +	Action/Comment			GPS Latitude/	Longitude	NO.
o.	Start	End	3113		ion	+ @				Start	End	Photo
48	1.16	1.16		Encroachments	WS	A/W Ma	PI : Pipe			37.805623 ° 3 -121.401207 ° -12 DWR ID: DWR_RD20		Υ
49	1.22	1.22		Vegetation	WS	M Ma	V2 : Remove the wild growth other than r from the levee slopes. Inspector Comments: Bamboo within top levee slope.	ŭ		37.805663 ° 3 -121.402151 ° -12 DWR ID: DWR_RD20		Y
50	1.25	1.25		Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base compact. Inspector Comments: 11/10/2011 Depres filled.			37.805735 ° 3 -121.402614 ° -12	37.805735 ° 21.402614 °	43 Y
										DWR ID: DWR_RD20	89_01_s _ 2012_	_43
51	1.26	1.26		Trim / Thin Trees	LS	C Ma	T1: Trim trees to at least five feet above Inspector Comments: Improvements macremain obstructive. Updated photo 05/24.	de, howe		37.805770 ° 3 -121.402790 ° -12	37.805770° 21.402790°	
										DWR ID: DWR_RD20	89_01_s _ 2012	_16
52	1.26	1.26		Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base compact. Inspector Comments: 11/10/2011 Depres needs ot be filled.			37.805801° 3 -121.402913°-12	37.805801° 21.402913°	
							needs of be filled.			DWR ID: DWR_RD20	89 01 s 2012	44
53	1.38	1.38		Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base compact. Inspector Comments: 11/10/2011 Depres filled.				37.806128 °	45
										DWR ID: DWR_RD20	89_01_s _ 2012	_45
54	1.43	1.43		Animal Control	LS	M Ma	A3: No rodents visible, but rodent burrow backfill and compact or grout burrows. Inspector Comments: 11/10/2011 No rod active burrows are present.			37.806268° 3 -121.405874°-12	37.806268 ° 21.405874 °	
							douve burrows are present.			DWR ID: DWR_RD20	89_01_s _ 2012 <sub>.</sub>	_47
55	1.43	1.43		Encroachments	LS	M Ma	TR : Tree or limb Inspector Comments: 11/10/2011 Downe toe prevents access to levee from landsid		levee	37.806266 ° 3 -121.405876 ° -12	37.806266 ° 21.405876 °	
										DWR ID: DWR_RD20	89_01_s _ 2012	_46
56	1.45	1.45		Encroachments	CR	U Ma	PI: Pipe Inspector Comments: 11/10/2011 6" PVC placed through the crown of the levee. PV allowed, pipe is cut into the landside slop is not permitted.	VC is no	ot	-121.406148° -12		Y
										DWR ID: DWR_RD20		
57	1.46	1.46		Encroachments	LS	M En	PI : Pipe			37.806396 ° 3 -121.406348 ° -12 DWR ID: DWR_RD20	21.406348°	Υ

\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

	Levee Mile		Category	Item	Rating ** + Location	Action/Comment		GPS Latitud	de/Longitude	Issue No.	
	Start	End	Calegory	item	tion +	Action/Comment			Start	End	Photo
5	8 1.47	1.47		Animal Control	WS M Ma	A3: No rodents visible, but rodent burrov backfill and compact or grout burrows. Inspector Comments: Deep burrow on w be filled.		•	37.806383 ° -121.406599 °	37.806383 ° -121.406599 °	
									DWR ID: DWR_R	RD2089_01_s _ 2012_	_49

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	4		
Start Levee Mile	0.00		
End Levee Mile	0.39		
Location	Land Side		
Category			
Item	Encroachments		
05/24/2011 Ditch flows parallel with the utility line			

05/24/2011 Ditch flows parallel with the utility line shown in the photo.

mkhashch\_s\_20130225\_490.jpg

Levee Mile Report Line	7
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	
Item	Encroachments
	·

Waterside of drainage discharge to Old River.

mkhashch\_s\_20130225\_488.jpg

Levee Mile Report Line	8			
Start Levee Mile	0.04			
End Levee Mile	0.04			
Location	Land Side			
Category				
Item	Encroachments			
05/04/0044-01				

05/24/2011 Steps are hard to discern in the photo, the top two steps are casting the two shadows located between the post and the photographer's shadow.

mkhashch\_s\_20130225\_482.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected
W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	8		
Start Levee Mile	0.04		
End Levee Mile	0.04		
Location	Land Side		
Category			
Item	Encroachments		
View of steps in the landside slope just behind the post. 05/24/2012			

mkhashch\_s\_20130225\_483.jpg

Levee Mile Report Line	11			
Start Levee Mile	0.18			
End Levee Mile	0.18			
Location	Land Side			
Category				
Item	Animal Control			
View of redent activity on landeide clone				

View of rodent activity on landside slope.

mkhashch\_s\_20130225\_517.JPG

Levee Mile Report Line	13		
Start Levee Mile	0.24		
End Levee Mile	0.24		
Location	Land Side		
Category			
Item	Trim / Thin Trees		
05/24/2011 Stump shown in center of photo.			







Location LS: Land Side WS : Water Side CR : Crown

mkhashch\_s\_20130225\_487.jpg

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	14			
Start Levee Mile	0.24			
End Levee Mile	0.24			
Location	Land Side			
Category				
Item	Vegetation			
LNA is actival, to increase a second contesting on the				

LMA is actively trying to remove vegetation on the landside toe.

mkhashch\_s\_20130520\_738.JPG

Levee Mile Report Line	15
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	
Item	Trim / Thin Trees

05/24/2011 Stump is located in center of photo.

mkhashch\_s\_20130225\_489.jpg

Levee Mile Report Line	17
Start Levee Mile	0.27
End Levee Mile	0.39
Location	Land Side
Category	
Item	Vegetation

05/24/2011 Thick brush and wild rose completely block access and visibility of landside slope and

mkhashch\_s\_20130225\_493.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

#### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	19
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	
Item	Vegetation

Arundo has been trimmed back from the road, but needs to be removed to so that it does not obstruct visibility and access to the landside toe.

mkhashch\_s\_20130225\_500.JPG

Levee Mile Report Line	20
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	
Item	Trim / Thin Trees

Trees on levee slope obstruct access and visibility.

mkhashch\_s\_20130225\_536.jpg

Levee Mile Report Line	23
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	
Item	Vegetation

05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

mkhashch\_s\_20130225\_507.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

: Corrected : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	24	
Start Levee Mile	0.45	
End Levee Mile	0.45	
Location	Water Side	
Category	Supplemental	
Item	DWR Erosion Survey	
Front view of the site.		

mkhashch\_s\_20130225\_529.jpg

Levee Mile Report Line	25	
Start Levee Mile	0.47	
End Levee Mile	0.47	
Location	Water Side	
Category		
Item	Encroachments	
Irrigation intoka numn and nina at LM 0.46		

Irrigation intake pump and pipe at LM 0.46.

mkhashch\_s\_20130225\_491.jpg

Levee Mile Report Line	26
Start Levee Mile	0.47
End Levee Mile	0.74
Location	Water Side
Category	
Item	Encroachments

View of the ditch at the landside levee toe with an 18 inch pipe placed in the ditch, facing downstream. The pipe will be the primary path to convey water for irrigation.

mkhashch\_s\_20130520\_739.JPG







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated

: Corrected : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	26	
Start Levee Mile	0.47	
End Levee Mile	0.74	
Location	Water Side	
Category		
Item	Encroachments	
Another view of the ditch and pipe at the landside		

toe of the levee, facing upstream.

mkhashch\_s\_20130520\_740.JPG

Levee Mile Report Line	28	
Start Levee Mile	0.50	
End Levee Mile	0.50	
Location	Land Side	
Category		
Item	Vegetation	
05/24/2011 Dood brush is too thick to allow		

05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.

mkhashch\_s\_20130225\_510.jpg

Levee Mile Report Line	29		
Start Levee Mile	0.56		
End Levee Mile	0.56		
Location	Crown		
Category			
Item	Crown Surface / Depressions / Rutting		
11/10/2011 Depressions in crown.			

mkhashch\_s\_20130225\_495.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

#### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	31		
Start Levee Mile	0.64		
End Levee Mile	1.53		
Location	Water Side		
Category			
Item Vegetation			
11/10/2011 Vegetation needs to be cleared on			

the upper 20' of the waterside slope.

mkhashch\_s\_20130225\_499.jpg

Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. The scarp is visible on the slope.

mkhashch\_s\_20130225\_530.jpg

Levee Mile Report Line	34
Start Levee Mile	0.67
End Levee Mile	0.68
Location	Land Side
Category	
Item	Vegetation

05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

mkhashch\_s\_20130225\_511.jpg







Location LS: Land Side WS : Water Side CR : Crown

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

: Corrected : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	35	
Start Levee Mile	0.67	
End Levee Mile	0.67	
Location	Water Side	
Category		
Item	Animal Control	
05/24/2011 Two active burrows shown in photo.		

mkhashch\_s\_20130225\_512.jpg

Levee Mile Report Line	36	
Start Levee Mile	0.73	
End Levee Mile	0.77	
Location	Land Side	
Category		
Item	Vegetation	
11/10/2011 Vagatation obstructs visibility of clans		

11/10/2011 Vegetation obstructs visibility of slope and toe.

mkhashch\_s\_20130225\_501.jpg

Levee Mile Report Line	37	
Start Levee Mile	0.82	
End Levee Mile	0.82	
Location	Water Side	
Category		
Item	Encroachments	
Irrigation intake pump and pipe on levee slope.		
mkhashch s 20130225 494.jpg		







Location LS: Land Side WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

# Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	38		
Start Levee Mile	0.85		
End Levee Mile	1.07		
Location	Water Side		
Category			
Item Vegetation			
View of tall weeds and brush obstructing visibility on waterside slope. 05/24/2012			

mkhashch\_s\_20130225\_515.jpg

Levee Mile Report Line	40
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Water Side
Category	
Item	Vegetation
4.444.040.04.4.4.	001 6 4 11

11/10/2011 Arundo on upper 20' of waterside slope.

mkhashch\_s\_20130225\_513.jpg

Levee Mile Report Line	43	
Start Levee Mile	0.98	
End Levee Mile	1.07	
Location	Water Side	
Category		
Item	Vegetation	
11/10/2011 Thick vegetation on upper 20' of waterside slope.		

mkhashch\_s\_20130225\_514.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	48	
Start Levee Mile	1.16	
End Levee Mile	1.16	
Location	Water Side	
Category		
Item	Encroachments	
Drainage discharge into Old River.		

mkhashch\_s\_20130225\_502.jpg

Levee Mile Report Line	49
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Water Side
Category	
Item	Vegetation

Bamboo on waterside levee slope obstructs access and visibility.

mkhashch\_s\_20130225\_504.jpg

Levee Mile Report Line	50	
Start Levee Mile	1.25	
End Levee Mile	1.25	
Location	Crown	
Category		
Item	Crown Surface /	
	Depressions / Rutting	
11/10/2011 Depression in roadway.		
•		

mkhashch\_s\_20130225\_521.jpg







Location LS: Land Side WS : Water Side CR : Crown

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	52	
Start Levee Mile	1.26	
End Levee Mile	1.26	
Location	Crown	
Category		
Item	Crown Surface / Depressions / Rutting	
11/10/2011 Roadway depression.		

mkhashch\_s\_20130225\_522.jpg

Levee Mile Report Line	53	
Start Levee Mile	1.38	
End Levee Mile	1.38	
Location	Crown	
Category		
Item	Crown Surface / Depressions / Rutting	
11//10/2011 Roadway depression		

mkhashch_s_20130225_523.jpg		
Levee Mile Report Line	54	
Start Levee Mile	1.43	
End Levee Mile	1.43	
Location	Land Side	
Category		
Item	Animal Control	
11/10/2011 Active rodent burrow on landside slope.		
mkhashch_s_20130225_525.jpg		







A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	55		
Start Levee Mile	1.43		
End Levee Mile	1.43		
Location	Land Side		
Category			
Item	Encroachments		
11/10/2011 Downed tree at toe needs to be removed.			
mkhashch_s_20130225_524.jpg	mkhashch_s_20130225_524.jpg		

Levee Mile Report Line	56
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	
Item	Encroachments
11/10/2011 Broken PVC	pipe on waterside.

mkhashch\_s\_20130225\_526.jpg

TIKITASTICIT_S_20130223_320.jpg							
Levee Mile Report Line	56						
Start Levee Mile	1.45						
End Levee Mile	1.45						
Location	Crown						
Category							
Item	Encroachments						
11/10/2011 PVC pipe on landside slope. Pipe needs to be removed.							
mkhashch_s_20130225_527.jpg							







A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

## **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	57						
Start Levee Mile	1.46						
End Levee Mile	1.46						
Location	Land Side						
Category							
Item	Encroachments						
05/24/2011 Pipe through levee, not previously noted in inspection.							
mkhashch_s_20130225_518.jpg							

Levee Mile Report Line	58
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Water Side
Category	
Item	Animal Control
11/10/2011 Deep burrow	on waterside.





mkhashch\_s\_20130225\_528.jpg

#### **Unit Cover Sheet**

#### **Spring 2013 Levee Inspection Results**

#### **Reclamation District No. 2089 Stark**

	Waterway	Bank	Unit Miles
ĺ	Unit No. 02 Salmon Slough	Right	1.37

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/16/2013 - 05/16/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Kent Gikas RD2089			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

#### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Start   End   Category   Item   Start   End   Category   Item   Start   End   Photo   Photo   Start   End   Photo   Ph					
1 0.00 0.39		iory Item	Ratir ** Locat	Action/Comment	GPS Latitude/Longitude No.
Ma	਼ਿੰਨ Start End	, ,	on + @		Start End Photo
Trees	1 0.00 0.39	Vegetation		from the levee slopes. Inspector Comments: Vegetation on the levee slope and	-121.407549 ° -121.412438 °
Ma capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo.  4 0.28 0.28 Animal Control LS M are grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area.  5 0.37 0.37 Encroachments CR M FE: Fence Inspector Comments: Gates across levee.  6 0.38 0.38 Animal Control LS M A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.  7 0.40 0.66 Vegetation LS M V2: Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco leaf and other brush block access and visibility.  121.408605 ° -121.408605 ° Y Capability visible,	2 0.06 0.06			ground level. Inspector Comments: Two large oaks with hanging limbs	-121.408488 ° -121.408488 °
Animal Control  Bulk RD2089_02_8_2012_24  Encroachments  CR M  FE: Fence En Inspector Comments: Gates across levee.  Animal Control  Animal Control  Bulk RD2089_02_8_2012_24  Encroachments  CR M  FE: Fence En Inspector Comments: Gates across levee.  Animal Control  Bulk RD2089_02_8_2012_24  Animal Control  Comments: Gates across levee.  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  CR M  A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.  Inspector Comments: Active burrow needs to be repaired.  Animal Control  Comments: Active burrow needs to be repaired.  Animal Control  Comments: Active burrow needs to be repaired.  Durk ID: Durk_RD2089_02_8_2012_2  Animal Control  Animal Control  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  Comments: Active burrow needs to be repaired.  Durk ID: Durk_RD2089_02_8_2012_2  Animal Control  Animal Control  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  Comments: Active burrow needs to be repaired.  Durk ID: Durk_RD2089_02_8_2012_2  Animal Control  Animal Control  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  Animal Control  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  Bulk RD2089_02_8_2012_2  Animal Control  Animal Control  Bulk RD2089_02_8_2012_2  Animal Co	3 0.08 0.08	Vegetation		capability. Inspector Comments: Thick brush may include some	-121.408605 ° -121.408605 ° Y
Inspector Comments: Gates across levee.  Inspector Comments: Acrive burrows visible; need to backfill and compact or grout burrows.  Inspector Comments: Acrive burrow needs to be repaired.  Inspector Comments: Tobacco leaf and other brush block access and visibility.	4 0.28 0.28	Animal Control		grout burrows. Inspector Comments: Ground squirrel sighted and active	37.809717 ° 37.809717 ° 24 -121.410511 ° -121.410511 ° Y
backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.  7 0.40 0.66  Vegetation  LS M Ma  Was backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.  DWR ID: DWR_RD2089_02_s_2012_26  37.810109 ° 37.812395 ° 8 -121.412619 ° -121.415813 ° Y  Inspector Comments: Tobacco leaf and other brush block access and visibility.	5 0.37 0.37	Encroachments			-121.412133 ° -121.412133 ° Y
from the levee slopes121.412619 ° -121.415813 ° Y Inspector Comments: Tobacco leaf and other brush block access and visibility.	6 0.38 0.38	Animal Control		backfill and compact or grout burrows.	-121.412317 ° -121.412317 ° Y
DWR ID: DWR_RD2089_02_s_2012_8	7 0.40 0.66	Vegetation		from the levee slopes. Inspector Comments: Tobacco leaf and other brush block	-121.412619 ° -121.415813 ° Y
					DWR ID: DWR_RD2089_02_s _ 2012_8

+ Issue Type

Inspector

Inspection Start/End

-121.415098 ° -121.415098 °

DWR ID: DWR\_RD2089\_02\_s \_ 2012\_50

DWR ID: DWR\_RD2089\_02\_s \_ 2012\_37

37.814544 ° 37.814544 ° 37 -121.414276 ° -121.414276 °

Bank

**Unit Miles** 

#### **Flood Control Project Maintenance Levee Inspections**

#### Levee Inspection Report By Mile - Spring 2013

#### **Reclamation District No. 2089 Stark**

Waterway

				Unit No. 02	Salmor	Slough	Right	1.37	05/16/2013 05/16/2013	Maksi Khashc	
LMR No.	Levee	Mile End	Category	Item	Rating ** + Location	Action/Comment			GPS Latitude/l	Longitude End	No.
8	0.42	0.43	Supplementa	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/07/2012: The sixisted by boat survey. No significant cho 08/23/2011: No significant changes obs 09/07/2010: Site consists of a jutting rip created an eddy, scouring the levee slop of the toe and lower slope are lined with the rip rap is sloughing on the mid slope exposing the underlaying soils and tree remaining revertment is no longer adequate slope. There are 3 Sycamore trees are exposed tree roots. 08/05/2010: Recommended for repair, p. 09/28/2009: Pocket erosion on lower slote rip rap; protruding rip rap upstream if eddy, scouring the levee slope; Site # is RM28.40,LM0.30; previously rated "U"; made available during the next survey. 11/05/2008: Cut into levee profile; ripragate the significant control of the significant change.	ange observed on a rap that he. Most so rip rap. He and at the roots. The ately protest the toe oper CLRO oper just all as creating the same pictures we salide; roots solide; roots all the same pictures we salide; roots all the same pictures we same pictures all the same pictures we same pictures all the same pictures all	erved site. nas sections dowever, the toe, eecting with  coove the g an ee as vill be dent	37.809960 ° 3 -121.413200 ° -12	87.809960° 21.413200°	
9	0.46	0.46		Encroachments	WS M	[2012 Site ID:RD2089U02RM28.35]  BU : Building Inspector Comments: Portable toilet on	bank, at v	vater's	37.810490 ° 3 -121.413638 ° -12	37.810490 °	27
						edge.			DWR ID: DWR_RD20	89_02_s _ 2012_	_27
10	0.49	0.49		Animal Control	CR M	A3 : No rodents visible, but rodent burro backfill and compact or grout burrows. Inspector Comments: Two old burrows tilled.			37.810691 ° 3 -121.414014 ° -12	37.810691° 21.414014°	
						illieu.			DWR ID: DWR_RD20	89_02_s _ 2012_	_13
11	0.49	0.49		Crown Surface / Depressions / Rutting	CR M	C3 : Add appropriate gravel or road bas compact. Inspector Comments: Surface depression filled.			37.810714 ° 3 -121.414057 ° -12		
									DWR ID: DWR_RD20	89_02_s _ 2012_	_10
12	0.54	0.54		Animal Control	WS U Ma	A2: Repair the levee slope damaged by prevent large animal access. Inspector Comments: 11/10/2011 Repacaused by livestock.			37.811150 ° 3 -121.414748 ° -12	37.811150° 21.414748°	
						·			DWR ID: DWR_RD20	89_02_s _ 2012_	_14
13	0.56	0.56		Encroachments	WSA/W En	/ PI : Pipe Inspector Comments: Irrigation intake			37.811366 ° 3 -121.415064 ° -12 DWR ID: DWR_RD20		Y
14	0.70	0.70		Trim / Thin	WS M	T4 : Trim trees over roadway to at least	12 feet al	oove	37.812822 ° 3	37.812822 °	50

Location LS: Land Side WS : Water Side CR : Crown

0.82 0.82

Rating

A : Acceptable
M : Minimally Acceptable U : Unacceptable

Trim / Thin

Trees

Trees

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

Ma ground level.

Ma ground level.

+ Issue Type

WS C T4: Trim trees over roadway to at least 12 feet above

### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

			T			
LMR	Levee	Category	Item	Rating ** + Location	Action/Comment	GPS Latitude/Longitude No.
No.	Start	End		on +		Start End Photo
16	0.82	0.86	Vegetation	LS U Ma	V2: Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.	37.814421 ° 37.814913 ° 36 -121.414203 ° -121.414594 ° Y
17	0.85	0.85	Animal Control	WS M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Livestock have worn paths into levee slope.	37.814773 ° 37.814773 ° 21 -121.414555 ° -121.414555 °
18	0.85	0.85	Animal Control	WS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present.	37.814844 ° 37.814844 ° 38 -121.414566 ° -121.414566 °
19	0.86	0.86	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope.	37.814906 ° 37.814906 ° 25 -121.414745 ° -121.414745 °
20	0.86	0.86	Encroachments	CR M En	FE : Fence Inspector Comments: Gate across levee crown.	37.814881 ° 37.814881 ° 9 -121.414676 ° -121.414676 ° Y DWR_ID: DWR_RD2089_02_s_ 2012_9
21	0.87	0.92	Animal Control	LS U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and land side ramp.	37.814997 ° 37.814970 ° 40 -121.414774 ° -121.415767 ° Y
					·	DWR ID: DWR_RD2089_02_s _ 2012_40
22	0.95	0.95	Encroachments	WS M	PI : Pipe Inspector Comments: Debris/CMP on levee slope needsto be removed.	37.814940 ° 37.814940 ° 41 -121.416499 ° -121.416499 ° Y
						DWR ID: DWR_RD2089_02_s _ 2012_41
23	0.99	0.99	Encroachments	LS M En	BU : Building Inspector Comments: Move the mobile home at least 15 feet away from the landside levee toe.	° ° 5
						DWR ID: DWR_RD2089_02_s _ 2013_5
24	0.99	0.99	Encroachments	LS M Ma	DE : Debris	37.814990 ° 37.814990 ° 28 -121.416999 ° -121.416999 ° Y DWR ID: DWR_RD2089_02_s _2012_28
25	1.02	1.14	Trim / Thin Trees	LS C Ma	T1 : Trim trees to at least five feet above ground level.	37.815160 ° 37.816499 ° 42 -121.417474 ° -121.418824 ° DWR.ID: DWR_RD2089_02_s_2012_42
26	1.07	1.07	Trim / Thin Trees	WS N Ma	T5 : Tree stumps. Inspector Comments: 14" dia stump. Could not verify overgrown with high weeds.	37.815629 ° 37.815629 ° 29 -121.418133 ° -121.418133 ° Y
						DWR ID: DWR_RD2089_02_s _ 2012_29

\* Location
LS: Land Side
WS: Water Side
CR: Crown

\*\* Rating
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+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

# **Reclamation District No. 2089 Stark**

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

LMR	Levee	Mile	Category	Item	Rating ** + Location **	Action/Comment	GPS Latitud	le/Longitude	NO.
No.	Start	End	catogory	itom	lion + g	7 todon o o minorio	Start	End	Photo
27	1.10	1.10		Encroachments	WS M	DE : Debris Inspector Comments: Water tanks disposed of on levee are obstructive.	37.816100 ° -121.418487 °	37.816100 ° -121.418487 °	
28	1.15	1.15		Vegetation	WS M	V4 : Elderberries are blocking visibility and flood fight capability.	37.816487 ° -121.418948 °	37.816487 °	30
29	1.26	1.26		Vegetation	WS M	V4 : Elderberries are blocking visibility and flood fight capability.	37.818051 ° -121.419743 ° DWR ID: DWR_R	37.818051 ° -121.419743 ° D2089_02_s _ 2012	
30	1.28	1.33		Encroachments	LS U En	BU : Building Inspector Comments: Buildings and equipment encroach within 10-ft of landside toe. The boat was removed.	37.818277 ° -121.419725 ° DWR ID: DWR_R	37.819040° -121.419760° D2089_02_s_2012	Υ
31	1.30	1.33		Trim / Thin Trees	WS C Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Low hanging trees over crown road.	37.818607 ° -121.419660 °	37.818968 ° -121.419743 °	
32	1.32	1.32		Vegetation	WS M	V4 : Elderberries are blocking visibility and flood fight capability.	37.818829 ° -121.419776 ° DWR ID: DWR_R	37.818829 ° -121.419776 ° D2089_02_s _ 2012	

# Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	3		
Start Levee Mile	0.08		
End Levee Mile	0.08		
Location	Water Side		
Category			
Item	Vegetation		
Fall 2009 photo of unacceptable vegetation on levee slope.			

mkhashch_s_20130225_541.jpg
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Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	
Item	Vegetation

05/24/2011 Updated photo of issue noted in Fall 2010 inspection.

mkhashch\_s\_20130225\_542.jpg

Levee Mile Report Line	4		
Start Levee Mile	0.28		
End Levee Mile	0.28		
Location	Land Side		
Category			
Item	Animal Control		
05/24/2011 Active burrows, ground squirrel sighted in area.			

mkhashch\_s\_20130225\_552.jpg







Location LS: Land Side WS : Water Side CR : Crown

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	5		
Start Levee Mile	0.37		
End Levee Mile	0.37		
Location	Crown		
Category			
Item	Encroachments		
View of gate across levee crown.			

mkhashch\_s\_20130225\_539.JPG

Levee Mile Report Line	6	
Start Levee Mile	0.38	
End Levee Mile	0.38	
Location	Land Side	
Category		
Item	Animal Control	
05/24/2011 Active rodent hurrow		

05/24/2011 Active rodent burrow.

mkhashch_s_	20130225	553.jpg

Levee Mile Report Line	7	
Start Levee Mile	0.40	
End Levee Mile	0.66	
Location	Land Side	
Category		
Item Vegetation		
Fall 2009 photo: Brush on landside toe limits visibility and accessibility.		

mkhashch\_s\_20130225\_543.jpg







Location LS: Land Side WS : Water Side CR : Crown

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+ Issue Type

# Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	
Item	Vegetation
Brush on landside slope limits access.	

mkhashch\_s\_20130225\_544.jpg

Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Close view of the site	•

Close view of the site

mkhashch\_s\_20130225\_538.jpg

Levee Mile Report Line	9
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	
Item	Encroachments
05/04/0044 D 4 11 4 11	

05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

mkhashch\_s\_20130225\_554.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

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### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	10	
Start Levee Mile	0.49	
End Levee Mile	0.49	
Location	Crown	
Category		
Item	Animal Control	
11/10/2011 Two large burrows on crown, need to be filled.		

mkhashch\_s\_20130225\_547.jpg

Levee Mile Report Line	11	
Start Levee Mile	0.49	
End Levee Mile	0.49	
Location	Crown	
Category		
Item	Crown Surface /	
	Depressions / Rutting	
11/10/2011 Depression in crown needs to be		

filled.

mkhashch\_s\_20130225\_545.jpg

Levee Mile Report Line	12
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Water Side
Category	
Item	Animal Control
11/10/2011 Approximatel created by livestock trave	







Location LS: Land Side WS : Water Side CR : Crown

mkhashch\_s\_20130225\_548.jpg

Rating

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+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	13	
Start Levee Mile	0.56	
End Levee Mile	0.56	
Location	Water Side	
Category		
Item	Encroachments	
Irrigation intake pump and pipe at waterside slope.		

mkhashch\_s\_20130225\_546.jpg

Levee Mile Report Line	14	
Start Levee Mile	0.70	
End Levee Mile	0.70	
Location	Water Side	
Category		
Item	Trim / Thin Trees	
View of low hanging branches over waterside		

View of low hanging branches over waterside slope and crown. 05/24/2012

mkhashch\_s\_20130225\_564.jpg

Levee Mile Report Line	16	
Start Levee Mile	0.82	
End Levee Mile	0.86	
Location	Land Side	
Category		
Item	Vegetation	
05/24/2011 Extremely thick dead brush prevents		

access and visibility.

mkhashch\_s\_20130225\_557.jpg







Location LS: Land Side WS : Water Side CR : Crown

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+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	20	
Start Levee Mile	0.86	
End Levee Mile	0.86	
Location	Crown	
Category		
Item	Encroachments	
View of the fence gate across levee crown.		

mkhashch\_s\_20130520\_742.JPG

Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	
Item	Animal Control
05/24/2011 Deen vertical	hurrow in levee crown

05/24/2011 Deep vertical burrow in levee crown.

mkhashch\_s\_20130225\_559.jpg

Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	
Item	Animal Control
05/24/2011 Deep vertical	burrow in ramp on land

mkhashch\_s\_20130225\_560.jpg

side of levee.







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

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+ Issue Type

### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	22	
Start Levee Mile	0.95	
End Levee Mile	0.95	
Location	Water Side	
Category		
Item	Encroachments	
05/24/2011 Old CMP left on waterside levee slope, needs to be removed.		

mkhashch\_s\_20130225\_561.jpg

Levee Mile Report Line	23
Start Levee Mile	0.99
End Levee Mile	0.99
Location	Land Side
Category	
Item	Encroachments
View of the mobile home	at the landaide toe

View of the mobile home at the landside toe.

mkhashch\_s\_20130520\_741.JPG

Levee Mile Report Line	24	
Start Levee Mile	0.99	
End Levee Mile	0.99	
Location	Land Side	
Category		
Item	Encroachments	
05/24/2011 Concrete and metal debris at landside toe needs to be removed.		







Location LS: Land Side WS : Water Side CR : Crown

mkhashch\_s\_20130225\_555.jpg

Rating

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: Corrected : Acceptable but Monitor & Maintain

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### Levee Inspection Report By Mile - Spring 2013

## **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	26	
Start Levee Mile	1.07	
End Levee Mile	1.07	
Location	Water Side	
Category		
Item	Trim / Thin Trees	
Tree stump >2" left after vegetation and tree removal		

mkhashch\_s\_20130225\_556.jpg

Levee Mile Report Line	27
Start Levee Mile	1.10
End Levee Mile	1.10
Location	Water Side
Category	
Item	Encroachments

View of water tanks disposed on waterside slope.

mkhashch\_s\_20130225\_549.jpg

Levee Mile Report Line	30
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	
Item	Encroachments

Fall 2009 photo: Boat and equipment stored within 10-ft of levee slope are an encroachment.

mkhashch\_s\_20130225\_550.jpg







\* Location

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WS: Water Side

CR: Crown

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### Levee Inspection Report By Mile - Spring 2013

### **Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/16/2013 05/16/2013	Maksim Khashchuk

Levee Mile Report Line	30	
Start Levee Mile	1.28	
End Levee Mile	1.33	
Location	Land Side	
Category		
Item	Encroachments	
Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.		
mkhashch_s_20130225_551.jpg		



+ Issue Type